

a mixture of substances capable of sustaining an arc discharge, and a glass envelope enclosing said quartz tube.

IN THE CLAIMS:

Please rewrite claims 1, 2, 6, 11-14, 17, 22, and 23 as follows:

1. (Amended) A metal halogen electrodeless illumination lamp, comprising a microwave generator coupled via a coupling means with a microwave cavity which contains a discharge bulb, and a microwave screen, the function of which is performed by some part of walls of the microwave cavity, which is transparent to optical radiation, said discharge bulb containing a fill mixture of metal halogens which emits visible optical radiation featuring a molecular spectrum, immediately when excited with a high frequency discharge, and an inert gas, of which said fill mixture of metal halogens includes halides of Sn and Al.

2. (Amended) The metal halogen electrodeless illumination lamp according to claim 1, wherein a halogen component of said halides is selected from the group consisting of chlorine, iodine and bromine.

6. (Amended) The metal halogen electrodeless illumination lamp according to claim 5, wherein a halogen component of said

73
cont. halides is selected from the group consisting of chlorine,
iodine and bromine.

11. (Amended) The metal halogen electrodeless illumination lamp according to claim 1, wherein the inert gas is argon or xenon.

12. (Amended) The metal halogen electrodeless illumination lamp according to claim 1, wherein the discharge bulb additionally contains a small amount of at least one metal selected from the group consisting of Zn, Na, Li or a compound thereof.

13. (Amended) A metal halogen electrodeless illumination lamp, comprising a microwave generator coupled via a coupling means with a microwave cavity which contains a discharge bulb, and a microwave screen, the function of which is performed by some part of walls of the microwave cavity, which is transparent to optical radiation, said discharge bulb containing a fill mixture of metal halogens which emits visible optical radiation featuring a molecular spectrum, immediately when excited with a high frequency discharge, and an inert gas, of which said fill mixture of metal halogens includes bismuth halide.

14. (Amended) The metal halogen electrodeless illumination lamp according to claim 13, wherein a halogen component of said halides is selected from the group consisting of chlorine, iodine and bromine.

17. (Amended) The metal halogen electrodeless illumination lamp according to claim 16, wherein a halogen component of said halides is selected from the group consisting of chlorine, iodine and bromine.

22. (Amended) The metal halogen electrodeless illumination lamp according to claim 13, wherein the inert gas is argon or xenon.

23. (Amended) The metal halogen electrodeless illumination lamp according to claim 13, wherein the discharge bulb additionally contains a small amount of at least one metal selected from the group consisting of Zn, Na, Li or a compound thereof.
